

POLYMORPHISMS IN THE IL4R $\alpha$  GENE (Accession No. AC004525)

TGTGAGCTAC	TGTGTCGGC	CTGAATAATA	AAATTTAAA	CAATTTCA	
AAAATTCAAC	ATGAGGTCTC	ACTATATCC	CTAGGCTGGT	CTCAACCCCC	30100
TGGACTCAA	GTGATCCACC	CCACCTTCCC	GAGTAGCTGG	GACTAGAGAT	30200
GCACACCAIT	GCACCCAATA	GAGCAATACG	TTTCTGTCT	TTGTAATATTA	30300
CCTGCTCTAA	GGTATTTTG	TTATAGCAGC	CTATATGGAC	TAAGCTGACT	30400
TGTAACGTTA	CTTGAGACTT	TAAGTGTTC	CGTCACTGT	TGGAGGGCTC	30500
TGCTCTGTT	AGCTCATTTA	ATCCCCACAA	CACCTCAATC	AGATGGGGCT	30600
ATTCTTGTAGC	CCACTTITTA	GATAAGAAAA	CTGAGGGCATG	GAAGCACAGC	30700
TTGTCAGGG	TTTACATCTA	CTGACTGACA	GAGCAGGTAT	TTAAACCTCA	30800
GGAAAATAATC	AGAGAAACAT	GTGAGAGGG	TTGTCAAAGG	AAGGCCACAT	30900
CCAGAACGAT	CTCCAGGAC	AGTTGTGTC	TAGCTCAACC	TCTGGACTTT	G
TTGGGTCTGG	GTGTTGTTTC	ATGATTATAG	AGAGAGCTCT	GTGAACGTGG	31000
AGGACCTGTT	GTGCGCAGAG	ACACAAATGG	CCAGGGCATG	GCTGGGAGC	31100
CCGAGTGGCTA	CCGGCTCTGA	ATCCCGACAC	TTCGAGAAGA	CCAGAGGGGC	[exon 3: 31071..
AGATCTGAG	GTCAAGACTT	CAAGAACCGAC	CTGAGCAACAA	TGGTAAACACC	31140]
CCGCTCTCAC	AAAGATGAGC	AAAATTAGCC	AGGTGTGGT	GTGGCACACT	31200
AGCTCTCTAC	CTACCTGGGA	GGCTGAGGCA	GAAGAATCGC	TTGAACCCGG	31300
AGGTGCCTG	GCATCTCCCA	ATGGGGTGGC	TTTGCTCTGG	GCTCCTGTTC	31400
GAGGAGTGGAG	TTGCACTGAG	CTGAGATTC	ACCATCGCAC	TCCAGCCTTG	31500
CCTGTGAGCT	GCCTGGCTCT	GCTGCAAGTG	GCAAGCTCTG	GTAAGTCACC	31600
ACTTCTCAAT	CATTCTATTG	TTGGCTTATA	ATGGCGTGCC	AGGGTCTCTGC	31700
AGTATGTCAC	CTGGCTTAT	GGAGATTACA	CTGCAGTGGG	AGGGGACACG	31800
CAATGACAAG	TGGCCCTGAT	TATCAGTAAA	TTCTAAAGAT	TGTTAGAAAG	31900
TGATGGGGC	GGGGTGTGAGT	GGCTCACACC	TGTAATCCCA	GCACTTCAGG	32000
AGGGCAGGGC	AGGGAGATTC	CTTGCACCCA	GGAGTTCGAG	GTCAGCTTGG	32100
GCAACATAGG	GAGACCTTGT	CTCTACAAT	AATAAAATAT	TAGCAGGGTG	32200
TGGCACTGCA	CGCCCTGTAGC	CCCACGTACT	CAAGGGCCG	AGGTGGGAGG	32300
ATCCCTGAA	CTCAGGAGGT	CAAGGCTGCA	GTGAACTGTG	ATCGCCGCCAC	32400
TCCACTCCAG	CCTGCGTGTAG	AAAGTGAGAC	CCTGTCAAAA	AAAAAGAGAA	
GTTGATGGGG	AAAGAACACA	GAACAGCATA	AGAGGGGCTT	GGGGAAAGCTG	
GTTGGAGTGG	GGGGGATTTG	AGTTGAATAG	AGGAAGTCA	GGGAAGGCCT	
CATTGAGCTG	ACTTGGAGGA	AGCGGGAACC	GTGCACTGAT	CTGGGGAAAGG	
CTCATTTCTG	CGCAGAGGGC	CCTGCACTGA	GCTGCGGGG	AGGGTTGAGC	
ACAGGGAGGA	ATGTGGTGG	GGAGAGTGG	CAGCAGGAGG	GAGCACTGAA	
GTCACCAAG	GTGACAGAGT	GGCTGAATTC	AAAAGAGACT	TGCAGTGT	
GAGCAAGGA	TCCATATCAT	CCATTATGTT	CCAAAGAGACT	CTTCAGGATG	
CCGTTGAGG	AAAGGAAGAG	GGTGGAGGCC	AGGAGCTCTG	GAGGGAGGTC	
TGGAGTGGAG	GAGATGAGAG	GCTCCGGATC	CCCTCTGGGG	GTAGATTGAA	
GGACAGATTC	GAATTGAGGT	GAAGAGACAGA	GAAGAGAGAG	TGGCCAGGAT	
GACTCCAAGA	TTTCTGACCT	AAACTACTGG	GAAGGACGCG	GTGTCATT	
CTGAAATGCA	GAAGGATGCG	GAAGAGAGAG	GTACTTTTGG	GAGGGCCGGG	
ATTCAGGAGT	TAGTTTTGGA	CATGAGATAA	GCTGGGRTA	TTTATTTGCT	
ATCTAAGACA	GCTCCCTAAC	ATGGAATGCC	CTTATGCAAG	TTGTTGTCAG	
CTGAGATGGG	CCTGGCACTG	AGCATGGGAG	CATGGAGGCC	CCTGAGTGGT	
CTCATGCTCA	GGTGGTTAG	CAAACATCAGT	GTACATCCTG	CCAATTCCAG	

FIGURE 1A

TCTCTGCCATG	GCCACTGACA	AGCTAGGAGG	GCGCTGAAAG	GAGAAGGACC	32500
CCGATGTC	CTCCAGCCCC	TCCATCTCCT	CTCTCCATT	GGCCAAACCC	32600
AACCGGAAAC	TAAGGCCAA	GGGTACCCGG	TGATGAAGAC	TGTGGTATCA	32700
GCCTCTTGAG	CACAGAGGG	GCAGAAAGGG	GTGGAGACAA	AGAGGGCGC	32800
AGATAGTGGG	CAAATGGGA	AGTGGCACCT	CCCCTAGCTC	GAGGGCAGAG	32900
GCTTGGTGT	ATGGAATGGC	ACTCCTTAAA	CTGCTACATA	TTTCCCTTT	T
AATTGGCCA	AGAACAACTT	GTCAACTT	TGTGAGATAA	AGGTGACTT	T
GGTCGTTCT	TGTCTAATGG	CCCCCGCACC	CATGGGTATT	TCTTCAGCTT	T
CCACAGCTAT	CCGGACACTA	GCTGGGAAGC	TCCAGCACCC	CTGGTCTCTGG	T
CCCCACCTG	GTGGCGCTG	CCCCCTCACT	TTGCTGAC	TGTGTTTTG	T
TGCTATTCCC	CTTGGTCTG	TTGGGTGCA	AGTCCCCCTC	ACGCATTGAG	T
T					33000
TTCCCTGGGCC	GCTCAGGCTG	CTCCTGTGTC	CCCCCAGGGG	ACATGAAGGT	T [exon 4: 32988..
CTTGCAAGGAG	CCCACCTCGG	TCTCCGACTA	CATGAGCATC	TCTACTTGCG	33100
AGTGGAAAGAT	GAATGGTCCC	ACCAATGCA	GCACCGAGCT	CCGCCCTGTTG	TACCACTGG
.....33126]					C
TTTGGGGAGG	TTGTGCCCCA	AGGGTTTGCC	CCAAGAGTGA	GCTGGTCCA	33200
GGTGGTGC	TGGAGTGCAG	GATGCTGAGT	ATGGTTTGT	GCTGTTTATA	33300
TGGTGTAGA	GGGGAGGTCC	CATCTCCAGG	GACATGTTAT	GTAAGATACA	33400
GTGGAGCAG	TGGTGGTAC	GTGGTCCAC	GTGGCACATG	GATACGGCTG	33500
GAATAGTGA	CTAGACCGAC	AGTCTCACA	CTTTTTGTC	TCAGGACCCCT	33600
TTTTCACACT	AAAAAATGAG	TGAGGACCCA	AAGGGCTT	GTGTAGGTAA	33700
CACATCATTC	TATGTTTAC	TTAATTGAAAC	TTCAATGAA	GAAATGGTGT	33800
AATTTTAA	AAATAAAAC	AAATAAAAT	TTTTTTCTT	ACTGAAATGG	33900
AGGTCTCACT	GTGTTGCCA	GGCTGCTC	AAACTCTGG	GCTCCAGTGA	TCTCTCTGCC
TCGCCCTCCC	AAAGTCTGG	GATTACAAAGC	GTGAGCCGCT	GTATCCGGC	34000
GTATCCGGC	AAATAATGGAG	AAATTAAAG	TCCCAACAAAC	ATGCAAGCCC	34100
GCATTCACAA	AATCTTCAAG	TCATTTACAT	GATCACAGCT	CATGTAGCCT	CTAGAAAATT
CTAGAAAATT	CCACTGTAGC	CCAGTGGAGG	AGAGTGGAAA	GGCAAAATAAC	GTCCCTGTCT
TATGATGAAA	AGAGTTTAC	CTGGTGGCC	CAGACCAAC	TTTGGAGAAC	34200
TTTGGAGAAC	ACTGGACTAG	ACCCCTGATT	GAGGAGTACG	GTGTTGAGAG	TGGAGTCTC
TGTGATGGTG	GATGGACCA	GACACATGGC	ATAGGRGTCA	GGTGGTCTCC	34300
TGGCTCTC	CATGGTGCAC	AGGATGCTTC	GTTCACACTGG	TGCGGCAAGG	34400
ATAATCACGT	ACACAAAGCA	CACAGCTT	GGGCAGACTG	GGGATATACG	34500
GGGATATACG	GCACACCGC	ATGCAGCCTT	CACCAGTAA	GGTGGTATTTC	CTAGTATT
CATGATT	CTAAAGTGA	TGGCTGTG	TTTGTGTTCA	TTGGCTTGT	34600
CCAGGATTG	GCACAACTATG	GGCCCTGAGC	CAAATCCGGC	CCACTGCTTG	TTTGTGAA
TTTGTGAA	TTAAAGTTTA	TTGGAACACA	CTGGCTGCT	TAGTTGTAAC	AGAAACTCTG
GGGCTCTCT	TTTGTGTTTT	TGTTGTTG	TTTGTGTTG	GGGCTCTCT	34700
TGTTTCTT	GAGACAGACT	TTGGCTCTG	TTGCCCAAGG	TGGAGTGCAG	TCGACAATC
TGGCACAATC	TCGGCTACT	GCAACCTCTG	CCTCCCCGGT	TCAAGCAGATT	CTCCCTGTCTC
AGCCTCCCGA	GTAGTTGGGA	TTAATGGTC	CTGCCACCAAC	ACCCGGCTAA	34800
ACCCGGCTAA	TTTTCTGTT	TTTGTAGAG	GACCGGTTT	CATCATGTTG	TGTACCATGG
GCCAAGCTG	TCTCGAACCT	CTGAACTCAG	GTATCCACC	CGCCCTCAGCG	34900
TCCCAAGGTG	CTGGGATTAC	AGGCATGAGC	CACTGAGGCC	GGCCTCTCTCC	TTTATCTTAA
TTTATCTTAA	TTGAAATAAT	TCAGAAATGG	AAAGTCAT	ACTGCAATGTT	CTCACATTATA
CTCACATTATA	AGTAAGACT	AAATAATGTG	TACACATGGG	CATTATTC	TGTACCATGG
AATAACAGAC	ATTGAAACT	TGGGAGGTG	GGAGAGGGGT	GAAGGAGAG	GAAGGAGAG
GAAGGAGAG	AAGTAACTA	ATGGCCATAG	TGTACACCAT	TTGGGTGACG	GGCCACCAAG
GACCCACAGC	ACACCCAGAC	TTCCACCATCA	GGCAGCATCAT	CCAGTGGAGAA	CAGATCTGAG
GCTGCCATC	AAAATTGCA	TTGTAAGGCC	GGGCACGTG	GTGGGCTCGG	GTGTAATCC
GTGGCTCGG	GCTGTAATCC	CAGCCCTT	GGAGGCCAGG	GTGGGAGAGT	

FIGURE 1B

CACTTGAGGT CAGGAGTTCG AGACCGGGCT GGCACACATG GTGAAGCTCC	35000
ATCTCTACTA AAAATAAAC AATTAACTGG GTGTAGTGGC GCACACCTGT	35100
AATCCCAGCT ACTAGGGAGG CTGAGGGGG AGAATTGCTT GAGCCAGGA	35200
GTTGGAGGTG CGAGTGAACAT CACTGTACTC TAGCCTGGGT	35300
GACAGTGAGA CTTTGTCTCA GGAAAAAAA ACAAAACAA AAAACAAAAA	35400
ACTCTGACCC CCTAAATTAA TACAATAAC CAAAAAAA AAAAAAAAAAG	35500
GAAATTGTGT GGCTTGTGAA GTCCAAAATA TTAACATATCT GGCTGTGTTAC	35600
AGAAAAAGTT TGCAGACCCC TGGCTAGCC CGTGAGATGT GGGTTGGCTG	35700
TTAAGGTGGA ACATTGGAT TATCTTACGA TGCCCAAACG GTGCCATGCA	
GAGCTTATGT TGTCTAAAT TAATTAGTGC CACCGTTCT TCCCTTCTAT	
GGGCTTCAG GAACAAGCTA AGTCCAGGA CCAGGGCGG CAGCTAGGCA	
GGTGTGAGGA GCATCTTGG TGCACTGGT AAAGAGCTGT GGCCAGCAAG	
AGAGGCAACC CTAGTCGGCT GGCCCCCAC ACCCTGGCCG CTCCCAAGGCC	
CCCAGATCTG TCCCTCACAT CGTGTGGGG AAAGCTGAGAG AGTCTGTATGC	
GGTTCTGGA GCCATGCCCC GGACACAGCT GTGGGGCCA GCCACCTAC	
AGGTGACCAAG CCTAACCCAG CCCCTGTGTC TGCAGAGCCC ACACGTGTAT	
G	
[exon 5: 35736..	
CCCTGAGAAC AACGGAGGCC CGGGGTGCGT GTGCCACCTG CTCATGGATG	35800
T A	
ACGTGGTCAG TGCGGATAAC TATACACTGG ACCTGTGGGC TGGGCAGCAG	
C	
CTGCTGTGGA AGGGCTCTT CAAGCCCAGC GAGCATGGTG AGCAGGGCGG	35900
..35887]	
AGTGGCGGCAAG GGGTGGCTGG GTGTGTTCCC ACAGCTGCCT GGGCTGAGGG	
T T	
TGGGGTGGGC AGGGGAGGAG GTGGGGTCAT AGCAACAGCA GGAGGAAGCC	36000
A	
GCCTGTATTTC TCCAAATCT GATGGGATTC CTGCCCCCTGC CTGGGCCCTCA	36100
GTCTCCAC CTTTGAACCG GAGCTGGTGC CAGTAGACCA CCAAGCCCC	
TTCAAGCCAG CTGTTTCCAC CCCTGAACCT AACTGCCCCAG GAAGGGCTAT	
TGAGATGAGG TGCTGTGTC GGAAAGGCATG CTCGCTGCT ATTGAAAACC	
GAACCTGGAA CATTCCTTC ATTCTGTGTC CACTGGTCAG CTGCTGGCG	
TTTGGATGGT CTGACCGTG GAAGGCTGAC CTTCTTCTGG TACCCGGAGT	
CCCTGCGAGA ATCCTCCCTTG AGCTGTGCG GCTGTGTTGA CAGGAGTTTA	
AAACATGCGT TGATTCCAG TGATGCGATG TATGACATGC ATCACAGGAA	
AAAAAACCTG AGGTCTCATG GATATGATTG CTTCAAAGGA GACCAAGTTT	
AAAAACAGAT GAATCAAAT AAAGAAAAT ACTCTGATAA TCATCATAAA	
GTACAGAGAT GTGGGCAAAG GTGTGAAGGA TGCGAGCTGA AAAGCTGAAG	
TTTGGGCCG GGTGTGGGG TTCATGCTA TAATCCACG ACTTTGGAG	
GCCGAGCCAG CGGGATCACCG GGAGGTCAAG AGCTGGAGAC CAGCCTGGAC	
AAACATGGTAA AACCCCCCTCT CTACTAAAAA TACAAAAAAAT TAGTCTGGCA	
TGGTGGCAGG CGCCTGTATAT CCCAGCTACT TGGGAGGCTG AGGTAGGAGA	
ATGGCTTGAA CCCAGGAGAA GGAGGTTGCA GTGAGCTTAG ATCATGCTAC	
TGCCCTCCAG CTTGGGGCAC AGAGTGAAGT TACGTCTCAA AAAATAAAA	
ATAAAATAAA ATAAGGAT TTTTTAAAAG GCTGAAGTTT GGGTACTTT	
GGCTCATACA CTTTGCTTC ACTGTAGAAA GTGTTAGT AAAGACCCAGG	
CGCGGTGGCT CATGCGTGA ATCCCGACAC TTTGGGAGCC CAGCGCAGGC	
AGATCACTTG AGCCCTGGGC TATTGAGGCT CGAGTGAAGCT GGGATTTGTC	
CACTGCACTC CAGCCTGGGC AACAGAGTGG GACCCCTCTC CAAAAAAGAA	
GAAAAAAAGG GTAATTATAA AACACTAAAG TTCTATGTAG AATTAAAGCA	
ACATTATTGT TATTATAATC TTCTTGTCA TGCTCTGAA TCTGTGTGGT	
GCTCCAGAAG TATGCTATGG AGGTTTGTGCA GACCAAAAT CTGGGTGGTG	
GCTGTGGTTT GTAGGGCGGG GCTGGCTGG GTGATGGGGG AGTCACTGCA	37300

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TAGATCCTCA	CATAGAGGCC	GCTTCTCCG	CAGTGAACCC CAGGGCCCCA
A			
[exon 6: 37334..			
GGAAACCTGA	CAGTCACAC	CAATGTCTCC	GACACTCTGC TGCTGACCTG
GAGCAACCG	TATCCCCCTG	ACAATTACCT	CTATAATCAT CTACACCATG
CAGTCACAT	TTGGAGTGA	AAACGACCCG	CAGATGTGAG TGGGCATGCT
T			
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TTGACGTTTT	TCTGTGACCT	CTGGGGAAACA	GGGTGGGTGA CCAGCAGAGG
CCCAGTCCTC	GGAGCCAGGA	GCCTGGGAGG	CAAGCCCTGG GGCTGGATAG
T	A		
CAAATCCCAG	GAGCTAGAGA	CCTGGCTTCT	CACCTGGCTC TGCCCTAGGC
T	A		
AACTCCCTT	GCTTCCTGGC	CCCCCACCCC	TCACATCAGA GAAGGGGAGT
T			
TATCTCTGA	TGCGCCTCCT	CCTCTGAAA	GGTAGGGCTG TGGGCCACAT
CTGTGTTTC	CAGTTGGGG	GACACAATG	ATCGTAGGTG GCACATTGAC
ACGCTACTTG	AATAACCCCTA	TATTAAGAAGA	GAATAATACT GACTCAAGAG
ACAGTGACCC	'GTGTCAGTC	CCTTTGAGG	CCAACGGGTT AAGGAGGAAG
TCCCCATACA	GCTGACTCGT	TTACTAATTC	CTCTTAATGA AGAGACCCAGA
GGCCACACCC	CAGGCTTAA	CTTTCCAAAG	AAAACAGAT CAGTTGTTG
GTTGTTCCC	ATGGAAAGCT	GTGTCAGAT	TCCCTTCACA GTAGTGTG
TGGAGTTTT	GTTGTTGTT	GTTTGAGAC	AGAGTCTCAC TCTGTCACCC
AGGGTGAAC	ACAGTGGCGT	GATCTGGCT	CACTGCAACC TCCGGCTTCT
GGGGTCTAG	GATTCTCTG	CCTCAGCCTC	TGAGCAGCC GGGACTACAG
GCACCTGCGA	CCGTGCCCGAC	CTAAATTTCG	TATATTAGT AGAGATGGGG
TTTCACTGCG	TTGGCCAGGC	TGGTCTCAA	CTCTGACCT CAGATGATCC
ACTCGCCCTG	GCCTCCCAA	GTGCTGGAT	TCAGGTGTG AGCCACCGCA
CCTGGCCAGT	GGAGTCTCTT	CTTAAAGTACA	TGTATTGACA TCTTTAAAAAA
GGGCGAGAGG	ATTTACAGGA	AACTATCAGG	TCAGTAATGG CAGGGCCGT
CCACAGTGGG	TGGCTGAGTC	CCCCCTATTTC	TTCGTTGTTG TGCAAGGAGG
TGATTTCTG	CAACCCATGT	TTCCCCACCC	TAATTCACAT TTCCCTACAT
TCCCCATTGA	GGGACAATCT	CTGGACATAT	GGGACCTGGG GTCCCAACAGG
GCTGCAATC	AATGCTCTG	GTGCCCCTCG	CCAGCTGTGT GATGTTGGC
ATATCCCCTA	ACCTCTTTG	GGCTCAGTT	CCTCATCTTG AACACAGGAG
TGACAAGAGC	ACCCGCCAC	AGGGCTATGA	CAGTACAAGG TGTGTGATAC
AGATGAGCTC	CCCTGTTGG	CCCCACATGT	TCTTAAAGC CATGTCCT
TTCTCTGAG	TGCCCCAGGG	CACAGAGATC	CCCCATCTGCC CCTGTCCA
CAACACTGTC	TGTCTTTG	TTCTTGAGGT	TTGTGAGGG CGGCTCTGTG
CATCCCAGGG	GGCCAGGCTG	GGCTCTGGTG	GCTCTCAAGG AGCAGGACCC
CGGGCACCTA	AGCTCCCATG	CTGGTGTCTG	TCACTGCTTC CTCTCAATCT
GGCCAAGGCCA	GGGGTGTGCA	TTTATATCTC	TCAGGTCTGG TTTCCCTT
GGCACTGGGC	CAGGTATGGG	GAAAGAGCAG	GAATGGGCCA GTTGGTCAC
ACACCCAGAGG	CTCAGAAAGC	GGGGGGCATG	GTGCACAGAT
GCTAGAGAGT	GGGGCAAGTT	TTGTTGGTC	AATAATCTC TTCTCATGC
CCCAGGCTG	TGCAAGACCT	ACAGAGAGTC	CCAAGGATGG GTGGGGGA
AGAGAAAGT	ACCACTTCA	GAGTCCTAAC	ATATGTATT TAATATTTTC
ATATTTCTGA	ATCTGCTTC	AGGCATGGCT	GGATCAGCT TCTAGGAAC
TGTCAGCTC	TGGCCCTGC	TTTATTCGT	ATTGGCTTCG TTTTAGGCA
GGCTCTTCC	TCTATGTAGT	GCAGATATGC	CTACTAGTTG CTCCAGGCCT
ACATCCCCTA	GGCCACAGTGG	GAAGAGGTT	TTTTCTCTG ACGGTTCTAA
TAAGAGTCTT	AAGGCTGCTG	CTCAGTGGCC	TGGCTTCGAT GCTGTGCCAG
CCTCTGAACC	AATCACTGGC	TGTGGGGTGA	GAGAGGGTGC TGTTGGAGGG

FIGURE 1D

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CCCTGCTTGT	CCAGGGAGGA	GTCACATACC
GGCTCAGCTC	CATCCAAACC	AGATGAAC TG AAAATAAGGC
TCCCCAGGGG	AAACTGGGGG	AGAGGAAGCA
CCAGCAGGT	TTAACGCTG	GCACCATGAG
GTCAGCATGC	CTGGGCTATG	GCCTTAGGGGT
CACAGGCCTC	CAGATACCAAG	GTCTGAGGCA
TCTTGTTGGT	GGAACAGTGG	CAACTGAGAT
AGAACAGAGC	TGAACATAAA	GAATTAGTG
ATGTCCCCC	CTGATGAATG	ATAGCGGAG
GCTTAGACTA	ATAGGGGTTG	GCCTGGAGAT
CCTAACAGT	GGGCACCTAA	ACCCGATGCC
CACCTGCTC	TGCCACAGCA	CATAGGAGC
TGGGATAAAT	TCCAGAAAAGA	AAACATTAGGA
GCTAGAGCTA	CTCATTCATT	CCCCTAGATA
AGTGGAGGGG	GAGTTTGGC	TTGGGCTATG
TAGATGGGGG	AAGAAAGGGG	GGCTAGACCA
AAAAGTTTA	TGGGTTGAA	AATTCTATGGA
TGGGGATGT	GGGAATATGT	GTAGCGATAA
GTTTAGTTAG	AGCCCTGTA	GCCTGCCTCA
ATGCCCTACTA	TGTGCGCAGG	ACATTGCTCA
GCAGGGCTGA	GTTTTGTG	TTGGTGTG
CTATCACCCAA	GGCTGGAAATG	CAGGGGCTCG
TGACTCTCTG	GGATCAGGT	ATCTCCCAAC
GGAACAGG	CACAGGCCAC	CACCCGAGG
ACCGACAGGG	TCTCGCATG	TTGTCGGCCC
CAAGTGTAC	CCCTGGCTCA	GCCTCCCAAG
AGCCACCGCA	TCCACCCAG	ATCTGAGAT
CCAAGCCTG	GCTCTTTTC	CTCCCATGGA
TCCCACAAAC	CTGTCCTTC	TGTTAAAAAA
CTTGGAAAGC	TCAGATTTC	CTTTGTTTC
TCCCAGCTC	CTTCCAGGGT	GTAAGATTTC
TGTTGCTTCT	TGTTGCTCA	TGTTGAA
ATTTCTCT	CCCTTCCCAC	GTCTCCCAAC
CTCCCTCTGT	AAATGGAAA	TCTCTGAAC
TCTTTGGAA	CTTTCTTCT	TTCTGTGAA
TTTGACCAAG	GTTTCCCCAA	ATGTCCTTC
CTGCCACTAA	CCAGGAAGAA	AATGCCGGGG
GGTGCATGCA	CCTGGATCTC	GCAGGGAGAG
AGGGTGCATCA	CTTGGCATC	GGGTGACAGG
AAATACAAT	GGTACAAAAG	ATGAGAACTC
ACTCCAGCTC	CCTGTTTTC	GGCTCAGTGA
CTTGGCAGAGA	GGGAAAGGGG	TGAATATAGC
CATCTTCTAG	AGAGAGCTA	TTCTGTAGTT
CATCGCTCTC	TTAGTTTCTC	ATTCTGCTGAT
CACAGCTTAA	AAACACACC	ATTATTATAC
AGTCTGGACA	TAGCTTAGCC	AGGTTCTCTG
AAATACAAGG	TCTGGGATGG	CTCATGCTGAG
GAAGGGTCA	TTCTAAGCTC	ATACAATATT
AGGCTGTTGA	ACTGAGAGCC	TCAGTTCTG
AAACCTGAAT	TCCTTCCCCAT	GTGCCCTTTC
GACTTGCCTA	GCAAGTAGGA	TATTACAGTC
CATGAAATCC	TCTATATAC	TCATCACCT
AAACAAAGTAG	CAGGTCTGC	CCACACTCGA
		GAAGACCCAGA
		TGACACAAAG

FIGURE 1E

ATGTGATTCA	AAGTGGGGAT	CATCGGGGCC	ATCTTAGGTT	TGTCTGCAGT	
GATCACTGTG	CCATCTCTT	CTCTCTCTT	TTTTTTTTT	TTTTTCGAG	42400
ACGAAGTCGT	CACTGTCA	CCAGGCTGG	AGTCAGTGG	CATGATCTCA	42500
GCTTACCCAC	ATCTCTGCCT	CCCAGGTTCA	AATGATTCTT	CTGCCTCAGC	
CTCCTGAGTA	GCTGGGATTCA	CAGGTGCCCG	CCACCAACACC	CAGCTAATT	
TTGTATTTTT	AGTAGAGACA	GAGTTTCACC	ATGTTGGCCA	GGCTGGCTTT	42600
GAACCTCTCA	CCTCAAGTGA	TCCACCCACT	TCGGCTCC	AAAGTGTCTG	
GATTACAGGC	ATGAGCCACC	ATGCCAGGCC	CCATCTCTCT	TTAAAAAAACA	42700
ACACAAACAAA	CAAAACACAT	AAAAGAACGC	AGAGAACACA	TACACATCTG	
CATCTTCCCT	TGTTTACTTA	ACATAGATAC	TTGGAAGTCA	CTTCTCAGTA	42800
GAGGCTAGGT	TGGGCAGAGC	ATTGGATTCT	AGGCCAGTGA	GTTTGGACTT	
GACCATGGAG	ACACTAGGAA	GCCCATGAAG	CACAGAGAGA	GATGCCCTGA	42900
CCCTGCCAGT	CCTTTAGAAA	GATCACCCAG	TGCTTTTGTT	ATACCAAACC	
CTATTGAAA	TACTTACGTA	TATTAACCCA	TTTCCTTATC	ACCACAAACCC	43000
TGCGGGAAGG	GAGATAGGCA	CTTTTTTAT	CTTCATTTTG	CAGATGAGGA	
CATTGAGGTG	CAGAGAGGTT	ATGTCACTTA	CTTAAAGTCA	CACACCCAGG	43100
AAGTGTAGT	AGGGACTCTT	ACCCCTGTTT	TACAGATGAG	ATTGAATTAT	
CTCACGAAA	CTCAGAAAGG	TTAACACA	TGCTTAAGTA	ACATACAGCT	43200
AATTAGTCG	GGAGGCTGAC	GCATGTTCT	CTAGCCTGTT	CACAGTTACA	
GAGGTGGCAAA	GAATGGCCT	GAACAGGAGC	AACACACAAA	TACCCAGGCT	43300
GGTGGCTCTT	AAACATGGTG	GGGTCACTA	ACGACACCAA	CCAGGGTGGG	
CACTGGTGC	CCTCGCCCCC	GGCTGGTGC	CTAACATCTC	CCTTTCTCT	43400
ACCAGTTCAG	AATCTATAAC	GTGACCTTAC	TAGAACCCCTC	CCTCCGCATC	

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[exon 7: 43406..

GCAGCCAGCA	CCCTGAAGTC	TGGGATTTC	TACAGGGCAC	GGGTGAGGGC	43500
CTGGGCTCA	TGCTATAACAA	CCACCTGGAG	TGAGTGAGC	CCCAGCACCA	43600
AGTGGCACAA	CTGTGAGTAT	CAAGAGGCT	AAGCAATGGT	aatctccact	

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CTCCATTCTT	CCCTGTGGC	CAGACACTTC	CCCTGGCTGA	GTCTCTGGGC	
TTTTATATCA	TAGGATGCCT	CTAATGGAA	TCTGCCATT	AGATACACCT	43700
GCTGTGCTGT	ATCTGCCAGG	TAGGCAGGCT	AGGCTGAGT	AAACACAAAG	

C

CCACAAATT	CCATGGCTTA	ACACTATAGG	AAATATATTTC	TTGCTCATGT	43800
AAACAGTAA	CCTGAATGTT	GCTGGTTGT	AGGTGGTTTC	CCTCCCTGTA	
GAATCTGGG	GAGTGAGGTT	CTTTCATCAT	TGTTGGTGC	TCATTCTCCA	43900
GGACAAAGAT	TCTTACCTAC	TTTGTGTCC	TGTTTCTT	GGCAGCTG	
GTGAAAGCTA	TGGACCTCAT	TTCAAGATA	TTTTAAATAC	ATAAAATCTCC	44000
AGCCTGGGG	ATATAGTGA	ACCCCATCT	GTCAAAATT	TAGCCAGCA	
TGGTGGCATG	CACCTGTAGT	CCACAGTACT	GGGAAGGCTG	AGGTGGGAGG	44100
ATCACTTGAG	CCCAGGAGTT	TGAGGCTGCA	GTAGGCGCTG	ATCGTACCCAC	
TTTACTCCCC	CCTGGGTGAC	AGACGAAGAG	CCATCTCTA	AAATAAAATA	44200
AATAACAATGA	AATAAAATAA	AATAAAATAGA	ACTACAGAGG	AAACTAATTG	
TATTGAAATG	CAGTTATAAA	ACATTTAAC	ACATTTTAA	TCTAGAGATA	44300
TATGTGCTTC	TTTATTAAGA	TCTATAAA	ATAAGTCTA	GGGGTAGCTC	
GCATAAAATC	TGTAATTCTCA	AAAGTAGATAAA	GCATAAAATA	TACTTTATGA	44400
TACTGAAATT	GTGATGTGAT	ATGAGAAATAG	CTGTGAGTT	TGTTTGTG	
GGGAACAGGAT	CACTGTGCT	GTCATTACTG	GGGTCTCTC	CCTCCATTCT	44500
TTTTTAAAAA	TTGTATTCTTA	TTTTTATTCTT	AAATTTTAA	AATAAAATAGA	
GACAGGGTAT	CACTATGTG	CCCAGGCTG	TTTTGACCTC	CTGGGCTCCA	44600
GTGATCTTCC	CATCTTGGCT	TCCCAAAGTG	CTGGGATTAC	AAGTGGGAGC	
CAGTGTTCCT	GGCCCCCTTC	TCCATTCTTA	ATGGAAGGAG	ATGCTAGGTG	44700
TGAGAGGTTA	GGGAAAGTAA	AGATGTAA	TCTTCCCAT	CCAAGTCTC	
AGACCCCTGA	ATTCTACCTG	CAGCCATGTT	GGTCATCAA	CCCCAAGTGA	44800

FIGURE 1F

AGAAATCCCTG	CTCTAGGGCC	CCACCATTTGT	CTGTATCCAG	CCAGCAGAAG	
AGGCCTGATT	ATGGAGATCA	CATCTGCTC	TTGAAGACGAG	ACAGCCCCGA	44900
AGTGGGCCG	ATCACTTCCT	CTCAAATCTC	ATTGGTGAAA	ATGGTCACAT	45000
GACTACACAT	AGCCACAAAG	GAGGCTGGGA	ACTTCTCAC	TTGGAACCTA	
CATCCCAGAA	ACAACCTCTT	TCACTGAGGT	ATCCCACAGG	TCTTCGAG	
TAGAAATATT	GATTATCTCA	CATAAAATGA	AGTCTTACAA	ATGGACCTAC	45100
TGGGTTTGT	ACAGCAGCCA	AGTGATATCT	CTTCCCTTCT	GCTGCTTCC	
CTTCTGCCGT	CCTTCACATG	GTGGCATTGT	ATCCCTAGAC	TTGCCACCCA	45200
TGCCCCTAGG	TTGGCCGTTG	CACACTCTC	TACATAAAAGC	AGGAAGGAAA	
GGAAAGGCTC	CTACAGAGAGA	GTGTACCTTG	TGCACTCTCT	TTTAATCG	45300
GAAGCAACAA	TCTTCTAGA	AGCTTCCCTA	GCAAAATTC	CCTTACATCT	
CATTGGCCAA	GACTGTTACA	TGTGTACATGG	TTACTGTAT	TACTTGCTCA	45400
TTGCAAGGAA	GACTGGGAAC	TCAARATGCC	GAAAAAAGGAG	ACAGGATAAT	
CGTGATTGGC	TCAACCTTA	GGGTGGGCAT	GGCTCCCTGA	CAAGGGAGAG	45500
AGGAAAAAAGC	TGTTGAGTGA	AAGAAGACTGC	TTCACTGTTC	CCATCTGTAT	
ATATGGGAGG	GTAAGGGCTG	TCTGTAAAAG	TCAATGAAAG	AGAGATCTTC	45600
ACAGCTGTAG	GTGCACTGGC	AGCTGGCACT	ACCCCTGACCC	TGCCACCGCA	45700
CAGCCCTCTC	AGCATTGCCT	ATCCTGCACT	GTGGATATCA	GTTGAGCCAC	
GTGTCCTCG	CCCTGGGCTG	TGACCTCTAC	AGGCAGGGTC	TCCATGGCTG	
TATCTCCAGA	ACCCAGCAC	GAACCCAGGTG	CTTGGGAAAG	TTTTGAATTG	45800
ATTCTCATCT	GCCATTGGCA	TGGGGAGGG	AACTAGCTTG	TATGAAACAG	
ATAACAAATGT	ATGGGACCTC	CATTCTGCACT	TTCACTGAAAT	ATTTCGCTGAG	45900
TTCCTCTCAT	ATGGCTAGGC	CTGTGCTAGA	CACTGGGGAA	TCGGCGATGA	
ACAAAGCAGA	TAGAAATCCC	CACTCTGTG	GAGCTGACAT	TCTGGAGGG	46000
GAGACAAAAA	GCAAACATAT	AAAGAAAGAA	AGAAATACAA	TGGATCTTGA	
TGACAGTGA	TGCTGGGAAG	AAAAATAAAAG	CAGAGGARGG	GGATGGAGCG	46100
ATGGGAGGG	GGCAACCGTA	GGGGAGGTGT	CGGGGGAAAC	TTTTGGGAGA	
ATGTGACGAT	GAAAAGTGAAC	AAGGAGAAGT	CAACCGTGT	GAGATGATGG	46200
CACTCATTA	TGTCAGACAGG	CCACTCTGT	CTGAGTCAT	TATCTATTGA	
TTCATCATGT	CATCCTCGCA	ACAGCCCTGC	ACGATCATT	CTGTCTTAA	46300
CCCCATAGTA	CAGATGAGGA	TGCGGAGGCA	CAGAGAAGAT	AAGGGACTTG	
TCTCTGTCTC	CACAGCAAGG	AGCCATCTCGG	CTCTTAAGTT	GGTGCATTG	46400
ACTCTGTGTC	TTCCGGAAAG	AAAGAACGAGC	AACTTTAAGA	TCTGGAGGTG	
GCACGTGACT	TTGGAGGGAGC	AGGGGGCAAT	GAGGTGGCCG	GTGTGAGGAG	46500
GACTCAATGT	GCAAGAGGGA	AGTGTGGGG	GAGATGAGGT	GGAGGGGTGG	
TCGGCGGTG	GATCTGGGAG	GCTCTGGGAC	GAGGGTCTG	ACCTCTGGTC	46600
TCCAGTCTCG	GGAAGTGGAG	CCACCGGTGT	ACCATGGCTG	ACCTCAGCTC	
ATGGCTCTCC	CTTCCACTTC	CAGCTACAG	GGAGCCCTTC	GAGCAGCAC	46700
[exon 8: 46674..					
TCCCTGCTGGG	CCTCTGGGTT	TCCTGCATTG	TCATCTGGC	CCTCTGCC	
TTGTGCTATG	TCAGCATCAC	CAAGTGAGTC	CTGGGCCAG	TGCTGCCGAG	46800
. 46773]					
CAGCTCCCTG	GGAGGTGAGG	GTGGCAGGGGA	CTTGGCCCTC	TAGTCTGCC	
CTTTGCAGTC	CTCTCAGTC	ATAATACGTA	TTTACTGAGC	ACCTAACTACA	46900
CACCTTGAGA	GTAGAGCTGA	GAACATATCC	ACAAGGACCC	CACTTTTTC	
TTTTTTCTT	TTTTTTTTT	TTTAGAGACG	GAGTCTCACT	CTGTCAACCA	47000
GGCTGGAGTA	TAGTGGCACA	ATCTTGCTCA	ACAGTAACCT	CCGCCTCCCG	
GGTTCAAGGA	ATTCCTCTGC	CTCAGCTCCC	AGAGTACGTC	GGATTACAGG	47100
CGCATGCCAC	TATGCCCGGC	TAATTTTTTG	TATTTTTGTT	AGAGATGGGG	
TTTCACCATG	TTGGTCAGGG	TGGTCTCGAA	CTCTGACCT	CATGATCTGC	47200
CTGCTCAGC	CTCCCAAAAGT	GCTGGGATTA	CAGGTGAGG	CCACTGCAAC	
CAACAGGAGC	TCCACATTC	AAAACCCGC	ATCCCTACTGG	GGAGACTGAA	47300
AATACATAC	AATCACAAAG	AGGTGTTTT	CCATAGTGAC	CCACTCTCTG	
AATGCACTAG	ACCAGGGTGG	AGGCCAGAGA	TCTTCTGGGG	TGCTTTTTC	47400

FIGURE 1G

AAGGGGGGACC	AGGATAAGGC	TCTCCAAGGA	GGGAAAATTT	GAGGGGGGCC	
CTGACTGGGG	AGAAATGAGCT	GGCCAGGGAT	AAGCAAGATG	GAGTCATCCC	47500
ACATCCCCCT	ACAACACTGG	GTGCCCTGGC	AACTGGGGC	ATTGGGGGC	47600
ATGTGGTAGG	AGGCCAGAGGA	ATTGCCGACG	ATTGCCCTGA	TGGAGTCAGG	
AGACCTGGGT	TTGAATCCTG	GCCTTGGAGC	TTGGTAGCTG	GCGGCCGACA	
AGTTGCTGAA	ACCCCTGAGC	CTGGGGTTCC	TGCTTGCAG	AGTGACAGTG	47700
ATGGTGAGAA	CATATTTCAT	CAGCCAGAG	AGGCCAAAT	ACAGTAAAGG	
CTGAGGGAGG	AGATGAGTGG	CGAGTGGCTG	GGAGGTGGTG	GAAGGAGCCT	47800
CGTTTCCAGA	GAGCTCTTGC	ACGCCCTGG	AATCATGGTC	TCTCAGAGCC	
TCAGCTCTCC	CATCTCTGAA	ATGGACTGAT	CAAGCTCAAC	CTCACTAAGT	47900
CAGGATTAGA	GGTGGCTTAAG	GATTATTAAAC	ATGATTGATG	AAAGTGCCCA	
CTCTTGGCCC	AGCACACACT	AGGTTAGGAG	GGAAATCCTAA	TTCCCCCTCCA	48000
TATCTGTCA	CTGATGCCCT	CGAGCAACCT	TGGACTGATC	GCCTTGCTCT	
GAGCCTCAGT	TCCCCATCA	CTCTGACTCT	TTCCCACTCC	CCATCACTAT	48100
ATCCCAGCAT	GCCACCTCT	TTGCTGTCT	TTGCTCTTGG	TTCTCTGTTT	
TGTTCTGTTT	TTAGACAGG	GTCTCACTCT	GTAGGCCAGG	CTGAAGTGCA	48200
GTGGCCGGGT	TACGGCTCAC	TGCACTCTCC	ATTCTCTGG	CTAAAGAGAT	
CCTCCCATTT	CAACTTCCAG	AGCAGCTGGG	ACAACAGGGC	CTTGCACCCA	48300
CACCTGGCTA	ATTTCTCTT	TTAAATTAA	TTTTATTTTA	TTTTTTGGGA	
CAGAGTGGAG	TCTCAAAAAC	CAAGCTAGAA	TGCACTGGTG	CGATCTCGAC	48400
TCACTGCAAT	CTCTGCCTCC	CGGGTTCAAG	CGATTCTCT	GCCTTAGCCT	
CCCGACTAGC	TGGGATTACA	GGGGTGTGCC	AGCACACCCA	GCTAACTTTT	48500
GTATTTTTAG	TAGAGATGGG	GTTCACCAT	GTGGCCAGG	ATGGTCTTGA	
ACTCTCTGACC	TCAACTGTAC	CACCCACCTC	GTTCCTCCAA	GGTGCTGGGT	48600
ACAGGCATGA	GCCACTGTGC	CTGGCCAAATT	TTCTTACATT	TTGTAAGAGAC	
TGGCTGTCA	TTATGTTAGCC	CAGCTGTATC	TTGAACCTCT	ACCCCTTAT	48700
CTTTATTCAT	GGCACTTATT	ACCATGAATG	ATGACCTCA	TATAAACATT	
TCTTCGTTT	TTTTTTTTT	TTCTTTGAGA	TGGAGTCTCA	TGTTCTCCCC	48800
CAGCGTGGAG	TGCACTGGCG	CGATCTCAGC	TCACTGAAAC	CTCCGCCTTC	
CGGGTTCAAG	CGATTTCTCT	GCCTCAGGGC	CTCTGAGTAGC	TGGGATGTCA	48900
GGCGCCTGCG	ACCATGCTCG	GCTAAAGTTT	GCATTTTTAG	TAGAGACGGT	
GTTTCAACCAT	ATTGGCCAGG	GTCTGTCTGA	ACTTCTGACC	TCAGGTGATA	49000
CACCTGCTCT	GGCCCTCCAA	AGTGTGGGA	TTACAGGGGT	GAGCCCCCAT	
GCCGGCCCTC	ATATAAGCAT	TTCTGTCTCC	ATTATATCATC	CATCTTCCC	49100
TCTTGAGGT	CAGTTTCACC	AAGGCCAGGA	TCTTTGTCTC	GTTCACTGT	
GTAGCTCTGAC	GGCCAGGAC	AGTGTACCAA	ACATAGAGGG	TGCTCAATAA	49200
ATATGTGTTT	ATTTATGAA	ACCATGGGA	GAGGCTAATT	CAGAACGGGT	
CTGAGGACCT	TACCTCCAG	TGATGTATGCA	CCATGGCCCC	AGGCAGGCCA	49300
GGAAAGAGAGA	AGGGTTGTGT	TCTCTCGTAG	GTCCCCCGAC	TTCCCAGGCC	
ATCCCGACCC	ATCCCCCTGGT	CATTGGCCCT	CACCTGCTCT	AAAAAAGGG	49400
TTGTTGAGGG	GAACCTAGAA	TCCTCTCTCT	GCAGTTTGAG	TCTTCTCTAA	
TCCCTGGGG	TCTCACTTCC	ACTGAGGACA	TAGGTGGCT	CCTCAGGAAC	49500
TCTGTGCTG	GTAAACAGAT	GGGGAGGTG	GAACCTGGCT	CTGCCACCTA	
CCAGCTGTCA	CTCCACCTCC	TTGGGCCTCA	CTCTCTCAT	CTGTAGAATA	49600
GGGTTAGCAA	TAGAAATCCAT	GTCACTGGGT	TAGAATGATG	AGTCAGTGGT	
TTGACCTCA	GAAGACTAATC	AGGCTGATCT	CTGATGCCAA	ATAAGTATTG	49700
GTATAACAGA	CCACTTTAT	GGGAGGAGCG	TTCACCTGT	ATAATTCA	
AGATCAACAC	CTTTTCTTT	TGTTTTTCAG	GATTAAGAAA	GAATGGTGGG	49800
[exon 9: 49781..					
ATCAGATTC	CAACCCAGCC	CGCAGCCGCC	TCGTGGCTAT	ATAATCCAG	
GATGCTCAGG	TAGGAGTAGG	CGTGGATGAG	GACATGTGGG	ACTGTGTACA	49900
..49859]					
TGAAGAAGTG	TGGTTCAAGA	CAACCTGGGCT	GTAAAGGACC	TTCACTGGCT	
TCTGGAATGG	CAAATAGACA	GTCAGGGAGG	TTGCAGGGGA	GACAGAGGCA	50000

FIGURE 1H

	9/15				
GAAGCCGAAT	GAGGTCATTA	GCAGACCGA	GGCTTCCCG	CCCTCCCC	50100
TGGCAATCCC	AGCCTGGGT	GGCCTTCTCT	GGGGTTGGT	TCCCTGTTTT	
TTCCCTCCCC	TTGGGAGAAT	GACCCTGGG	TCATCATCAC	TGTGTCATT	50200
CCTGGGGAGG	TGCCAGTAC	AGGGCTAGAG	GCCAGAAGGA	GTGGAGGAAG	
GAGAGGGTGA	CAGGCTTCT	GTGCTCTTCT	CTTAAGCATA	GGAAACTGCC	
CCCGAACAC	TAGCAAATCC	CTCCGGGTT	CTCATTGGCC	TGAAATGTAT	50300
CCCACCCCTA	AGCCAGGGGT	GGACTCACGT	TCCCCAAGGC	GATGTTCTG	
TGGGTGAGTG	GGTGGGGTTT	GCCTGAGCAA	GATGAGATT	CTCTAGGTAG	50400
GAGAAAAGGG	GATTATAGGT	CTCTGCTAGA	AGAGAAAGGTC	TGAGGGTCT	
TGCTTTCCA	GGGACTCTGA	AATCTAGTGT	TGGCTTTGAA	TCCTGACTCT	50500
GCCACTCACT	GGCAGTGTGG	ACTTGAGCAA	GTTGCTTAAT	TCTCTGAGCC	
TCAGTTTCT	CTTGTGGGTT	AAACAGCTGT	TTACCTGGTA	GGACAGATAT	50600
TGGAATTAT	TGAGACAATA	CATATAAAGT	GCATATTCCA	GCCTCTTGCA	
AATACCAAGT	GCCATTATAG	TATCAGTTAG	TGTTTGTGT	GTAACAAATG	50700
ACCCCGAAAT	GTAGAGGGTT	ACACAAACT	TATTTACCTT	ATGCTCTGC	
AGGGTGCAT	TTGGGGCTG	GCTCAGGAGT	GAGGGTGGCG	GGGGAGGCTG	50800
GGCTGGCTG	GGCTGGCGAC	ATCTGAATTG	AGCTGACCCG	TCCCCCTAGC	
CTCCCTCGT	GTCTGACAGT	TGGCTTTTT	TTTTTTTTTC	TTTTTCTGAG	50900
ACGGAGGTT	GCTCTTATTG	CCACCGAGT	CAATGGCATG	ATCTTGGCTC	
ACTGCAACCT	CTGCCCTCTG	GGTTCAAGGA	ATTTCTTGC	CTCAGGCTCC	51000
CAAGTAGCTG	GGATTACAGG	CATGTGCCAC	CACGCCAGGC	TAATTTGTA	
TTTTTAATAG	AGATGGGGTT	TCTCTCATGT	GGTCAGCTG	GTCTGGAACT	51100
CCTAAATATCA	GATGATCCAC	CCACCTCAGC	CTCCCAAAGT	GCTGGGATT	
CAGGGTAGG	CCACTGCACC	CAGCCTAGTT	GGCTGACTTT	TACCTGGGAC	51200
AGTGCAGGTG	CCTGAGGCCAT	GTGCTCTCA	CTCTCCAGCA	GGCCGGCCCA	
GGCTTGTAA	CAGAGTGGCT	CAGTTTCAA	GGGTGGAAAG	TCCCAAGGCT	51300
TCTTGAGGCC	TAGGCCAGCAG	ACTGCGATCA	TATCACTCC	ATCACATTCT	
ATGGGCCAA	GCAAGTCCA	GGGCCAGTGT	AGATTCAAGG	GATGGGAGGA	51400
GATTCAAGG	ACTCCTCTGT	GGGCCACTTT	GGCATCGACC	ACAGTCCCTG	
TAATAATTAG	GACAATGTA	TTAATTCCA	GGATCTGAG	GCTCAGAAAG	51500
CGTAAGTGAC	CTGTTGGACT	TCTGATCTGT	GTGATGTGCA	GGCTTGTACC	
CCTCCCTCTG	CATTGCCGTA	CTCCAGGCC	GGCTGCAAGG	CCACTCTGCT	51600
CTTTCATTGG	CTGCTCTGTG	ATTTTAGGGG	TCACAGTGGG	AGAACCGGTC	
[exon 10: 51628..					
CCGGAGGCCAG	GAACACCACCA	AGTGGCCCGTA	TGTATCTGAA	CTTAGGTCAC	51700
..51677]					
AGCCTGCGATG	CATTGGGAAG	GTGATAGAAAT	TGGAGAGGCA	AGCCCCTAGC	
TCCATGTCG	CCTTCTCTTC	CCTGCGATCG	GTAATTGCCC	TGTGACATTA	51800
GCCTTCAAAG	GACGGCAGGA	GGGGGGTGT	TCTGAAACG	TGGACTGCTG	
GCCAAGCCCC	CTGAGTTCA	CTGGTGTGTC	AGGTACATGG	TGATACCCCT	51900
TGGGAGTGT	GTTATAGTTA	ACAACCCAGAG	CAGCCGTGCC	TGTTGTTAAA	
ATCTTGACCT	AATTGTATAC	TATGTCGCAA	ATAGCCACTA	TCTTGAACAC	52000
TCCCTCTCTT	TTTTTATAA	TACAGGATCT	CACTCTGTC	CCCAAGGCTGG	
TGTGAGTGG	TGCGATCATA	GCTCACTGCA	CCTTCAAACCT	CCTGAGGTCA	52100
AGTGATCCCT	CCATCTTAGC	CTCCCGAGTA	GCTGATACTA	CAGATGTGCA	
TTACCAAGCC	TGGCTATTGT	AAAAGGTTTT	TGCGCTGTAAT	TCCAGCTACT	52200
CAGGAGGCTG	AGGCATGAGA	ATCACTTGA	CCCGGGAGGC	AGAGGTTGCCA	
GTGAGCCAG	ATTGTGCCAC	TGCACTCCAG	CCTGGCCGCC	AGAGTGAGAC	52300
TCTTGTCTA	AAAAAAATAA	TACCAAAAAA	AGTTTTGT	AAAGACAACCT	
CTCGCTGTG	TGCCCCGCCA	CTGTGGCCTC	CTTAGCTTCT	TCCCTGGGGC	52400
CTGCTGAGCC	TTTCCATACT	CCAGAAACTA	AAAGGGGTCT	AGGACCCCTGC	
TTCAACCCCTA	GGATCCCCCA	TCTTTTTTTT	TTTTTTTTT	TTTTGGACGC	52500
AGGGCTTCTG	TGTTCTCCCT	AGGCTGGAGT	GCAGTGTATT	ACTGAGCCT	
CAAACCTCGT	GGCTCAAGTG	ATTCTCTAGC	CTCAGCCTTC	TAAGTAGCTG	52600

FIGURE II

GGACTACAGT CATAACACAA CATGCCAGC TAATTTCTC TTTTTTAAT	52700
TCTTGAGAG ATGTTGAGA CGGCTTGGGC TCTGTGCCC AGGCTGTTCT	
CAAACCTCCG AGCTCAAGCG ATCCCTCCG CTCAGCCTCC TAAAGTGCTG	52800
GGATTACAGG CGTAGGCCAC CGCACCGGC TTCCATATCC TTCTAATTG	
GTCATGGCTT GGGATAATGG TGTTGCTTT ATTATATCATC ATCCATAAG	
ACTTTTCTT ACTCAACAGA TCTGAGCTTG TATTGGTGC CCAGGACATG	52900
TGCTGGGTTC CGGAATTC CAAAGACACAG ACCCTACCC CAGGGATTT	
TCATTCTAGC AACATAGACT GATCAATTAC TGATTATAAC GTTACAAGGC	53000
ATGTCAGAAG TAGACAGCCA TCAGGACATG GTGATTTCAG GCTGGGCTTT	
C	
GAAGAATGAA TAGGAGTTT TCAAGTGTG AACTGAACC CTGACCAACC	53100
T	
TTTGCTTTG CAGACACTGG AAGAATTGTC TTACCAAGCT CTTGCCCTGT	
[exon 11: 53114..	
TTCTGGAGC ACAACATGAA AAGGGATGAA GATCCTACAA AGGCTGCCAA	53200
C	
AGAGATGCCT TTCCAGGGCT CTGAAAATC AGCATGGTGC CCAGTGGAGA	
TCAGCAAGAC AGTCCCTCTGG CGCACAGACCA TCAAGCTGGT GCGATGTGTG	53300
GAATTGTTG AGGGCCCCGGT GGAGTGTGAG GAGGAGGAGG AGGTAGAGGA	
AGAAAAAGGG AGCTTCTGTG CATGCCCTGA GAGCAGCAGG GATGACTTCC	53400
AGGAGGGAGG GGAGGGCATT GTGCCCGGC TAACAGAGAG CCTGTTCTG	
C	
GACCTGCTCG GAGAGGAGAA TGGGGGCTTT TGCCAGCAGG ACATGGGGGA	53500
T	
GTCTAGCCTT CTTCCACCTT CGGGAAAGTAC GAGTGCTCAC ATGCCCTGGG	
C T C	
ATGAGTTCCC AAGTGCAGGG CCCAAGGGAGG CACCTCTCTG GGGCAAGGAG	53600
CAGCTCTCTC ACCTGGAGCC AAGTCTCTCTG CGCACGCCGA CCCAGATGCC	
AGACAACCTG ACTTGACACAG AGACGCCCT CGTCATGCCA CGCAACCTG	53700
CTTACCGCAG CTTCAGCAAC TCCCTGAGCC AGTCACCGTG TCCCAGAGAG	
C	
CTGGGTCCAG ACCCACTGCT GGCCAGACAC CTGGAGGAAG TAGAACCCGA	53800
GATGCCCTGT GTCCCCCAGC TCTCTGAGCC AACCACTGTG CCCCACCTG	
AGCCAGAACAC CTGGGAGCAG ATCCCTCCGG GAATGTCTT CCAGCATGGG	53900
CGAGCTGCAG CCCCCGTCTC GGCCCCCACC AGTGGCTATC AGGAGTTGT	
T	G A
ACATGCGGTG GAGCAGGGTG GCACCCAGGC CAGTGGCTGTG GTGGGCTTGG	54000
GTCCCCCAGG AGAGCTGTT TACAAGGGCT TCTCAAGCT GCTTGGCAGC	
ATGCTGTGT CCCAGAGAGAATGCTTGGT GGGCTACCA GTGGGAGAAGA	54100
GGGGTATAAG CCTTCCAAG ACCTCATTC TGCTGCCCTT GGGGACCCCTG	
CCCCAGTCCC TGTCCTCTG TTCACCTTG GACTGGAGAC GGAGCCACCT	54200
CGAGCTCCSG AGAGCTACAA TCTCCCAAGC AGTCACCCAG ACCACCTGGG	
T	
TCTGGAGCCG GGGGAAAAGG TAGAGGACAT GCCAAAGGCC CCACTTCCCC	54300
AGGAGCAGGC CACAGACCCC CTGTGGACA GCCTGGCAG TGCCATGTG	
TACTCAGCCC TTACCTGCCA CCTGTGGCGC CACCTGAAAC AGTGTACATGG	54400
CCAGGAGGAT GGTGGCCAGA CCCCTGTCT GGCAGTCTT TGCTGTGGCT	
GCTGCTGTGG AGACAGGTCTC TGCCCCCCCTA CAACCCCCCT GAGGGCCCCA	54500
G	
GACCCCTCTC CAGGGGGGT TCCACTGGAG GCCAGCTCTGT GTCCGGCCTC	
CCTGGCACCC TCGGGCATCT CAGAGAAGAG TAAATCTCA TCATCCTCC	
ATCTGCCCCC TGCCAAATGCT CAGAGCTCAA GGCAGACCCCA AAAATCGTG	54600
C	

FIGURE 1J

AACTTTGTCT	CCGTGGGACC	CACATACATG	AGGGTCTCTT	AGGTGCATGT		54700
				C C		
	.54692					
CCTCTTGTG	CTGAGTCTGC	AGATGAGGAC	TAGGGCTTAT	CCATGCCCTGG		
				T		
GAAATGCCAC	CTCCTGGAAG	GCAGCCAGGC	TGGCAGATT	CCAAAAGACT		54800
			G			
TGAAGAACCA	TGGTATGAAG	GTGATTGGCC	CCACTGACGT	TGGCTTAACA		
CTGGCTGCA	GAGACTGGAC	CCCGCCCGAC	ATTGGGCTGG	GCTGCCACAC		54900
TCCCCATGAGA	GTAGAGGCCA	CTGGGCTGCC	GTGCCACACG	GCAGGCCACCT		
GCAGGAAACAC	TGAGGCCCTT	GGGCACACTCG	ACTTGTGAAC	GAGTTGTTGG		55000
CTGCTCCCTC	CACAGCTTCT	GCAGCAGACT	GTCCCTGTTG	TAACTGCCA		
AGGCATGTTT	TGCCCACCAAG	ATCATGGCCC	ACATGGAGGC	CCACCTGCCT		55100
			G			
CTGTCTCACT	GAACTAGAACG	CCGAGCCTAG	AAACTAACAC	AGCCATCAAG		
			A			
GGAATGACTT	GGGCGCCCTT	GGGAAATCGA	TGAGAAATTG	AACTTCAGGG		
AGGGTGGTCA	TTGCCTAGAG	GTGCTCATTC	ATTTAACAGA	GCTTCCTTAG		
GTGATGCTG	GAGGCAGAAT	CCCGGCTGTC	AAAGGGTGTT	CAGTTAAGGG		55300
GAGCAACAGA	GGACATGAAA	AATTGCTGTG	ACTAAAGCAG	GGACAATTG		
			A			
CTGCCAAACAA	CCCATGCCCA	GCTGTATGGC	TGGGGCTCC	TCGTATGCAT		55400
GGAAACCCCCA	GAATAAAATAT	GCTCAGCCAC	CCTGTGGGCC	GGGCAATCCA		
			T			
GACAGCAGGC	ATAAGGCACC	AGTTACCCCTG	CATGTTGGCC	CAGACCTCAG		55500
GTGCTAGGGAA	AGGCGGGAAC	CTTGGGTTGA	GTATGCTCG	TCTGTGTGTT		
			T			
TTAGTTTCAT	CACCTGTTAT	CTGTTTGTG	TGAGGGAGAT	GGAACAGAAC		55600
GGGTGGAGTT	TTGTATAAAT	AAAGTTTCTT	TGTCCTTTA	TTTTTTATGT		
ATTAACCAAA	CATACCTCCA	GACACTGCTG	TGAGTGTGTT	GTCTCTGTAA		55700
ACTCTTGAA	TTCACCCATC	CAGAGGAACC	AGGATGCAAG	AGGTTAAGAA		
ACTGCCGTC	TGGGTTGGG	TTCCCCATAC	AAGGATTCAA	ATAGTTGATT		55800
	A					
TAGGAAGTAA	TCCCGGGAAA	CCCTGCTAA	GTAGTGGGAA	ACTGAGGCAG		
GGAAAGCAC	AAACCAAGAA	AGTGTACCT	GAAGGGGTC	CAGATGCAGA		55900
CCCCAAAGTC	GGGTTCTGAA	ATCTCATGCA	AGAAAGATT	CAGAGCAGT		
CCATAGAGTC	AGTGAAGAGA	AGTTAATGAG	GAAGAATAG	GAATAAAAGA		56000
ATGGCTACTC	CGTAGACAGA	CGACGCTGAA	GGGTTGCTGG	CTGCCCTATT		
TTATGTTAT	TGATTAATTA	TATTCACCAAA	AAAGGGTGAA	TTATTATGCC		56100
TCCCTTTAG	ACCATATAGG	GTAACCTCCT	GATGTTGCCA	TGGCATTGTT		
AAACTGTCA	GGCGCTGTTG	GGAGTGTAGC	AGTGGAGACA	ACCAAGGTC		56200
ACTCTGTTG	CCATCTGGT	TTGGGGGT	TAGGCCATC	TTCTTACTG		
CAACCTGTTT	TATCAGCAAG	GTCTTATGAA	CTTGTATCGG	TGACGCCCTC		56300
CTGTCCTCAT	CTATGACTAA	GAATGCCCTA	ACCTCCCG	AATGCAGGCC		
AGTAAGTCTC	AGCCTCATT	TACCCAGCC	CTCTCAAG	CTCCAGTTA		56400
AATAAACCTC	TGACAAAAGG	GTGAGTTATT	CAACAGATTA	CCAGCATGAG		
TAATGATGC	TTACCTGCCG	GGGATCTCTG	GAAGACCATG	CATGGCACAT		56500
GCCCGATTT	GGCTGCAAG	GAGAGGGAGC	TGGGGTATTG	GTCCACCAAGC		
TCCCATCTGT	CATTGGCTGA	AGCTGCTTC	CAGGAGCATT	AATTCTCCAG		56600
CACTTCCAGC	TACTCCAGGA	AAAAAAAT	TCTTCAACTG	AGAGTTGGAG		
GTGTTGAGAG	ACTCTGGCAC	ACCAAGAGA	CAGGAACAGG	ACACCAACAG		56700
TGGCTGATGA	TACACTGCCA	AGTCACACA	CCTAGTGTAG	AACAGATCTA		
TAATGGAAATC	CAGACAGTGT	CTTCATCACC	CAGGCTCTCT	GTAGTGTATCT		56800
CGCCTTCACA	TCCGAGGGC	CGACAGGGAT	GGTGTGGGCC	TTAGATGGGA		

FIGURE 1K

AGGCTGGGAA	CTGAAGCTC	CTATGTCGT	ATCACATTG	CTTCTCGAG	56900
TAGCTGCCCT	GATTCACAC	TTGAGGGCT	TGGCCATT	AGATTCCTTC	57000
CTGCTCTAGG	AGCCTACATA	CTACACTGG	AATGATGGG	AGCTCTCAC	
CTCACATGCA	GCCTGATGTT	TGTTAGAAA	ACCTCTTGC	GCCAGGCATG	
ATGGCTCATG	GCTGTAATCC	CAGCAATTG	GGAGGCTGAG	GCGGTGTTAT	57100
CACTTGAGGT	GAGGAGTTCA	AGACCAGCCT	GGCCAATATG	GTGAACACCT	
ATCTCTACCA	AAAAAATAAA	AATTAGCCCG	GTGTGGTGGT	GGGTGCGCTGT	57200
AATCTCAGCT	ACTTGGGAGG	CTGAGTTGGT	AGAATTGCTT	CAACCTGGGA	
CGCGGAGGTT	GCAGTGAGCT	GAGATTGTC	CATTGCAC	CAGCTTGGAT	57300
GACAGACTGA	GACCTGTCT	CAGGAAAAAA	AAAAAAAAAA	AAAAAAAC	
TTGTTCTAAG	CCAAAATCAA	TCCCTTAGC	TGCCCCAATC	ACACAGTTA	57400
CAGATGGAGA	AACAGTTTTA	GAGGAGAAA	GGGACTTGCC	CAAAGTCACC	
CAGAGAATGG	CAGAGCTGA	ACTGACCTTC	TGGACTCTT	GCCTCCAAAA	57500
GCTCTTATA	ATAAAATATA	ATTTTAAATA	AAAATAGTTA	TCTGTTTAGG	
GCCAAGCAAT	ATGCTAAGT	CCGTCGACCC	ACTGTGTCAT	TTACGCTCTC	57600
AAACAGCTCT	AGTTGGGAGG	CTCAATGATT	ATCCCCATT	TACAGATAAG	
AAACAGCTG	CAGAGGAGTT	GAGGATTAGC	CTAGAACACC	ACAGCTAGGA	57700
AATCCTGGG	CCAGGATTG	AAACCGGGTC	TGACCTAAGA	GCTCCAGGC	
GGCGTGTAT	ATCAGCTTAT	GTCATCTGA	CACCTACGCA	GATGTCGGCT	57800
CGAATTCACT	TTGCTGTAGC	ATTGCTCTCA	AGAAATCTAA	TTTAAATT	
AGGCAGCAA	TAGAAAATAT	ATTGACTGC	TAGAGATGCA	ATGGGACTGG	57900
GAGCCCACAA	AAGGATCTA	GGCAAAAGAA	ATCCTAAGTG	TTGGCCTCAG	
CAACTATTAC	TGAACTGGCT	GGGCTTTGGG	AAAGCTACAGA	GGGATGAGAA	58000
GACCTGGTGG	ATCAGGTGGG	CCCAACTCAG	GCTGGCCCC	ACCTCTGAGG	
AACTAGGAAA	AGTCAGGGT	CATAGGCCA	GTGAGATGCC	GGCTGGGGA	58100
GTTCAGCCT	CCGGGGCTGG	ACCAAGAGGC	AGGAGGGGAC	CCCCCTGGGT	
AGCAGGCCCA	GAGTGGGCTG	AGTGGCTGG	GCCCTCTCGG	GGGAGCTTC	58200
AGAGATGTTG	ATTTGGGGGT	ACTCCTCAG	CCCTGCCTT	ACACAGAATT	
TGTTGGGGAT	GAGGGGAGGG	GGAAAGGGGG	GAGGAAGGCA	GTGAGTCAT	58300
CTGAATTTTT	TTTTTTTTT	TACAAAAGT	GGCTTATTC	ATTTTCTGA	
TTACTCTATC	AGCACGTGCA	GACCTTTCC	TATTCAGAGA	AAGCCTGAAG	58400
ATATAAAAGAG	AAAATGGAAG	AAAACCAACC	GGAAATCCCA	TCCCCGCC	
AGCATCTGCC	ACTGTGTTGG	CGATCACGAA	ATGAGCGCTT	TTTTTGAAG	58500
GCGTAGTATC	TCCTGTAAACA	TCCGGTTGAA	CAACCTTCT	GACTTTATT	
TTCCCAAGAA	AGTTATTAAT	AAAACACAA	AAAGCAAAAC	ACCGAAAAAA	58600
CAAAACCC	AGCAAGTGT	TGAGCTCCCA	CCACGAGGG	GGCCTGACGT	
CACTGGGATCC	TCCCGGCAGC	CGATGAGGCT	GCATGGGACT		58690

FIGURE 1L

POLYMORPHISMS IN THE CODING SEQUENCE OF IL4R $\alpha$ 

ATGGGGTGCGC	TTTGCTCTGG	GCTCCTGTT	CCTGTGAGCT	GCCTGGTCCT				
GCTGCAGGTG	GCAAGCTCTG	GGAACATGAA	GGTCTTGCAG	GAGCCCACCT	100			
GGCTCTCCGA	CTACATGAGC	ATCTCTACTT	GGCAGTGAAA	GATGAAAGGT				
CCCACCAATT	GCAGCACCGA	GCTCCGCCCTG	TTGTACCAGC	TGGTTTTCT	200			
GCTCTCCGA	GCCACACGT	GTATCCCTGA	GAACAAACGGA	GGCGGGGGGT				
	G		T	A				
GGCGTGTGCCA	CCTGCTCATG	GATGACCTGG	TCAGTGCAGGA	TAACATATACA	300			
			C					
CTGGACCTGT	GGGCTGGCGA	GCAGCTCTG	TGGAGGGGT	CCTTCAGGCC				
CAGCGAGCAT	GTGAAACCCA	GGGGCCCCAGG	AAACCTGACA	TTTCACACCA	400			
ATGCTCTCCGA	CACTCTGCTG	CTGACCTTGA	GCAACCCGT	TCCCCCTGAC				
AATTACCTGT	ATAATCATCT	CACCTATGCA	GTCAACATTG	GGAGTGAAAA	500			
CGACCCGGCA	GATTTCAAGAA	TCTATAACGT	GACCTACCTA	GAACCTCCCC				
T								
TCGGCATCGC	AGCCAGCACC	CTGAAGTCTG	GGATTTCTA	CAGGGCACGG	600			
	A							
GTGAGGGCCT	GGGCTCAGTG	CTATAACACC	ACCTGGAGTG	AGTGGAGCCC				
CAGCACCAAG	TGGCACAACT	CCTACAGGGA	GCCCTTCGAG	CAGCACCTCC	700			
TCTGGCCGT	CAGCGCTTCC	TCATCTGCA	TCCCTGGCGT	CTGCCCTGTT				
TGCTATGTC	GCATCACCAA	GATTAAGAAA	GAATGGTGGG	ATCAGATTCC	800			
CAACCCAGCG	CGCAGCCGCC	TGCTGGCTAT	AATAATCCAG	GATGCTCAGG				
GGTCACAGTG	GGAGAAGGGG	TCCCGAGGCC	AGGAACCCAGC	CAAGTGCCCA	900			
CACTGGAAGA	ATTGTCTTAC	CAAGCTCTG	CCCTGTTTTC	TGGAGCACAA				
	C							
CATGAAAGG	GATGAAAGATC	CTCACAGGC	TGCAAAAGAG	ATGCCCTTCC	1000			
AGGGCTCTGG	AAAATCAGCA	TGGTGGCCAG	TGGAGATCG	CAAGACAGTC				
CTCTGGCCAG	AGAGCATCAC	CTGGTGTCCA	TGTGTGGACT	TGTTTGAGGC	1100			
CCCGGTGGAG	TGTGAGGAGG	AGGAGGAGGT	AGAGGAAGAA	AAAGGGAGCT				
TCTGTGCA	GCCTGAGAGC	ACCAAGGATG	ACTTCCAGGA	GGGAAGGGAG	1200			
	C							
GGCATTGTGG	CCCGGCTAAC	AGAGAGCTG	TTCTGGAC	TGCTCGGAGA				
			T					
GGAGAATGGG	GGCTTTGCG	AGCAGGACAT	GGGGGAGTCA	TGCTCTCTTC	1300			
			C	T	C			
CACCTTCGGG	AACTACGAGT	GCTCACATGC	CCTGGGATGA	GTTCCTCAAGT				
GCAGGGCCCA	AGGAGGCCAC	TCCCTGGCCG	AAAGGAGCAGC	CTCTCCACCT	1400			
GGAGCCAAGT	CCTCTGGCA	GGCCGACCCA	GAGTCAGAC	AACCTGACTT				
GCACAGAGAC	GCCCCCTCGTC	ATCGCAGGCA	ACCCCTGCTTA	CCCGCAGCTTC	1500			
AGCAACTCCC	TGAGCCAGTC	ACCGTGCTCC	AGAGAGCTG	GTCCAGACCC				
	C							
ACTGCTGGCC	AGACACCTGG	AGGAAGTAGA	ACCCGAGATG	CCCTGTGTCC	1600			
CCCAGCTCTC	TGAGCCAAC	ACTGTGCCCC	AACTGTGAGCC	AGAAACCTGG				
GAGCAGATTC	TCCGCCGAAA	TGTCCTCCAG	CATGGGGAG	CTGCAGCCCC	1700			
CGTCTCGGGC	CCCACCAAGT	GCTATCAGGA	GTTCGTACAT	GGCGTGGAGC				
	T	G	A					
AGGGTGGCAC	CCAGGCCAGT	GGGGTGGTGG	GCTTGGGTCC	CCCAGGAGAG	1800			
GCTGGTACA	AGGCCTCTC	AAGCCTGCTT	GCCAGCAGTG	CTGTTGCCCC				
AGAGAAATGT	GGGTTGGGG	CTAGCAGTGG	GGAGAGGGG	TATAAGCCTT	1900			
TCCAAGACCT	CATTCCTGGC	TGCCCTGGGG	ACCCCTGGCC	AGTCCCTGTC				
CCCTTGTCA	CCTTGGACT	GGACAGGGAG	CCACCTCGCA	GTCCCGAGAG	2000			

FIGURE 2A

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CTCACATCTC CCAAGCAGCT	CCCCAGAGCA CCTGGGTCTG GAGGGGGGG	
T		
AAAAGGTAGA GGACATGCCA	AAGCCCCAC TTCCCCAGGA GCAGGCCACA	2100
GACCCCTTG TGGACAGCCT	GGGCAGTGGC ATTGTCTACT CAGCCCTTAC	
CTGCCACCTG TGCGGCCACC	TGAAACATG TCATGGCCAG GAGGATGGTG	2200
GCCAGACCCC TGTATGGCC	AGTCCTTGCT GTGGCTGCTG CTGTGGAGAC	
AGGTCCCTCGC CCCCTACAAAC	CCCCCTGAGG GCCCCAGACC CCTCTCCAGG	2300
G		
TGGGGTTCCA CTGGAGGCCA	GTCTGTGTCC GGCTCCCTG GCACCCCTCGG	
GCATCTCAGA GAAGAGTAAA	TCTCATCAT CCTTCATCC TGCCCCCTGGC	2400
C		
AATGCTCAGA GCTCAAGCCA	GACCCCCAAA ATCGTGAAC TTGTCTCCGT	
GGGACCCACA TACATGAGGG	TCTCTT	2476

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FIGURE 2B

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ISOFORMS OF THE IL4R $\alpha$  PROTEIN

MGWLCSGLLF PVSCLVLLQV ASSGNMKVLQ EPTCVDYMS ISTCEWKMNG		100
PTNCSTELRL LYQLVFLSE AHTCIPENNG GAGCVCHLLM DDVVSADNYT		
V T		
LDLWAGQQLL WKGSFKPSEH VKPRAPGNLT VHTNVSDTLL LTWSNPYPPD		200
NYLYNHNHYA VNIWSENDPA DFRIYNVTYL EPSLRIAAST LKSGISYRAR		
H		
VRAWAQCYNT TWSEWSPSTK WHNSYREPFE QHLLLGVSVS CIVILAVCLL		300
CYVSITKIKK EWWDQIPNPA RSRILVAIIIQ DAQGSQWEKR SRGQEPAKCP		
HWKNCLTKLL PCFLEHNMKR DEDPHKAKE MPFQGSGKSA WCPVEISKTV		
LWPESISVVVR CVELFEAPVE CEEEEEEEEE KGSFCASFES SRDDFQEGRE		400
A		
GIVARLTESTL FLDLLGEENG GFCQQDMGES CLLPPSGSTS AHMPWDEFPS		
R		
AGPKEAPPWG KEQPLHLEPS PPASPTQSPD NLTCCTETPLV IAGNPAYRSF		500
SNSLSQSOPCP RELGPDPILLA RHLEEVEPEM PCVPQLSEPT TVPQPEPETW		
P		
EQILRRNVLQ HGAAAAPVSA PTSGYQEFVH AVEQGGTQAS AVVGLGPPGE		600
R I		
AGYKAFSSLI ASSAVSPEKC GFGASSGEEG YKPFQDLIIG CPGDPAPPVV		
PLFTFGLDRE PPRSPQSSHLS PSSSPEHLGL EPGEKVEDMP KPPLPQEQTAT		700
S		
DPLVDSLGSQ IVYSALTCHL CGHLKQCHGQ EDGGQTPVMA SPCCGCCGD		
RSSPPTTPLR APPDSPGVP LEASLCPASL APSGISEKSK SSSSFHAPG		800
A		
NAQSSSQTPK IVNFVSVGPT YMRVS		825

FIGURE 3